Title (en)

Method for locating emitting sources by using the mutual coupling of a small-base antenna array and quick-switching single-channel receiving system implementing the method

Title (de)

Lokalisierungsverfahren von Sendequellen durch Ausnutzung der Transformatorkopplung eines Antennennetzes mit kleiner Basis, und Einkanal-Empfangssystem mit schneller Umschaltung zur Umsetzung dieses Verfahrens

Title (fr)

Procédé de localisation de sources émettrices par exploitation du couplage mutuel d'un réseau antennaire de petite base et système récepteur mono-voie à commutation rapide mettant en oeuvre le procédé

Publication

EP 2607916 B1 20141203 (FR)

Application

EP 12197477 A 20121217

Priority

FR 1104008 A 20111222

Abstract (en)

[origin: EP2607916A1] The method involves receiving input signals of an antenna array having radiating elements by successively switching a reception channel on the radiating elements with predetermined switching period, and collecting a sample of the received signal to construct a space vector of the signal. A statistical estimator value is estimated based on modulation function of the received signal. A signal source is located based on spatial signature identification or identification of sources of direction vectors and the statistical estimator value. An independent claim is also included for a receiver system for localization of signal sources.

IPC 8 full level

G01S 3/74 (2006.01); **G01S 3/02** (2006.01)

CPC (source: EP)

G01S 3/02 (2013.01); **G01S 3/023** (2013.01); **G01S 3/74** (2013.01)

Cited by

US2016131754A1; CN114449650A

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)

EP 2607916 A1 20130626; **EP 2607916 B1 20141203**; FR 2985037 A1 20130628; FR 2985037 B1 20140117; PL 2607916 T3 20150529

DOCDB simple family (application)

EP 12197477 A 20121217; FR 1104008 A 20111222; PL 12197477 T 20121217